



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
[www.uspto.gov](http://www.uspto.gov)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/711,560	09/24/2004	Koji Uno	SIC-04-013	5559
29863	7590	06/20/2006	EXAMINER	
DELAND LAW OFFICE P.O. BOX 69 KLAMATH RIVER, CA 96050-0069				CUEVAS, PEDRO J
		ART UNIT		PAPER NUMBER
		2834		

DATE MAILED: 06/20/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No.	Applicant(s)	
	10/711,560	UNO, KOJI	
	Examiner Pedro J. Cuevas	Art Unit 2834	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

1) Responsive to communication(s) filed on 24 September 2004.  
 2a) This action is FINAL.                    2b) This action is non-final.  
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

4) Claim(s) 1-28 is/are pending in the application.  
 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
 5) Claim(s) \_\_\_\_\_ is/are allowed.  
 6) Claim(s) 1-28 is/are rejected.  
 7) Claim(s) \_\_\_\_\_ is/are objected to.  
 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

9) The specification is objected to by the Examiner.  
 10) The drawing(s) filed on 24 September 2004 is/are: a) accepted or b) objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
 a) All    b) Some \* c) None of:  
 1. Certified copies of the priority documents have been received.  
 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

1) Notice of References Cited (PTO-892)  
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  
 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
 Paper No(s)/Mail Date 9/24/04, 10/12/04, 3/29/05

4) Interview Summary (PTO-413)  
 Paper No(s)/Mail Date. \_\_\_\_\_.  
 5) Notice of Informal Patent Application (PTO-152)  
 6) Other: \_\_\_\_\_.

## DETAILED ACTION

### *Claim Rejections - 35 USC § 102*

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-8, 10, 13, 19 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent No. 6,418,041 B1 to Kitamura.

Kitamura clearly teaches the construction of a bicycle power supply comprising:

a housing (20) adapted to be mounted to the bicycle;  
a regulator (43) supported by the housing to receive signals from a power supply (27);

an output (44, 45) disposed on the housing to supply regulated signals provided by the regulator to a plurality of electrical components (Other I/O Devices – Figure 4) comprising:

an external terminal structured to be detachably connected to at least one of the plurality of electrical components, and  
a plurality of power communication paths (Figure 8), wherein at least two of the plurality of power communication paths provide different power characteristics (Shift VTL, Lamp CTL);

an input (40, 41) disposed on the housing to receive power from an external power supply and to supply the power from the external power supply to the regulator, and adapted to receive power from an alternating current generator;

a power storage element (35) supported by the housing for storing power from the alternating current generator;

a mounting member (Figures 2 and 3) disposed on the housing to detachably mount the at least one of the plurality of electrical components to the housing, having one of a convex portion and a concave portion structured to engage a corresponding one of a concave portion and a convex portion on the at least one of the plurality of electrical components; and

wherein:

the plurality of electrical component comprise a radio, a cell phone charger and a light (column 1, line 9 to column 2, line 29), and signals communicated from the regulator to the output is adapted to be communicated to a display (24).

***Claim Rejections - 35 USC § 103***

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 9, 11-12, 14-18, and 20-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 6,418,041 B1 to Kitamura in view of U.S. Patent No. 5,015,918 A to Copeland.

Kitamura disclose the construction of a bicycle power supply as disclosed above. However, it fails to disclose an external contact terminal structured to contact a complementary contact terminal on the at least one of the plurality of electrical

component when the at least one of the plurality of electrical components is mounted to the housing.

Copeland teach the construction of a bicycle single-wire lighting system comprising:

an external contact terminal (43, 44) structured to contact a complementary contact terminal on the at least one of the plurality of electrical component when the at least one of the plurality of electrical components is mounted to the housing, each external terminal being structured to be detachably connected to a corresponding one of the plurality of electrical component,

wherein the at least one of the plurality of connector terminals comprises one of a male and a female connector terminal, and wherein the complementary connector terminal comprises the other one of the male and the female connector terminal;

a data signal output (44, 45) disposed on the housing and structured to communicate a data signal to the display (24);

a signal input (40, 41) disposed on the housing and structured to receive a signal from outside of the housing;

a waveform shaping circuit (Figures 6-13) supported by the housing, wherein the waveform shaping circuit receives the signal from the signal input and provides a shaped signal as the data signal to the data signal output, wherein:

the signal input is structured to receive a signal from an alternating current generator, and

the regulator receives the signal from the alternating current generator and uses the signal from the alternating current generator to provide power to the output that is adapted to power the display; for the purpose of providing a warning device that has all active electrical parts on a single circuit board without parts being mounted to the case, sub-assemblies or loose wiring.

It would have been obvious to one skilled in the art at the time the invention was made to use the bicycle single-wire lighting system disclosed by Copeland on the bicycle power supply disclosed by Kitamura for the purpose of providing a warning device that has all active electrical parts on a single circuit board without parts being mounted to the case, sub-assemblies or loose wiring.

***Conclusion***

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See PTO-892.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pedro J. Cuevas whose telephone number is (571) 272-2021. The examiner can normally be reached on M-F from 8:30 - 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg can be reached on (571) 272-2044. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Pedro J. Cuevas  
May 31, 2006

